

Name : _____

Score : _____

Teacher : _____

Date : _____

Multiplying Rational Expressions

Simplify each expression.

$$1) \frac{(n-7)(n+2)}{n-7} \cdot \frac{12}{(n-11)(n-7)}$$

$$6) \frac{9}{(r-2)} \cdot \frac{11r+33}{(r+3)}$$

$$2) \frac{11b(b-2)}{(b-2)(b-4)} \cdot \frac{b-4}{(b-9)(b-10)}$$

$$7) \frac{6(q+3)}{3} \cdot \frac{7q}{6(q+3)}$$

$$3) \frac{11(c+7)}{(c+7)} \cdot \frac{12c}{11(c+3)}$$

$$8) \frac{4}{7} \cdot \frac{11}{9x}$$

$$4) \frac{5s+5}{s^2+14s+48} \cdot \frac{s+6}{5s+5}$$

$$9) \frac{42p^2+42p}{28p^2+28p} \cdot \frac{2p}{2}$$

$$5) \frac{2(h-10)}{(h-10)} \cdot \frac{9h}{2(h-8)}$$

$$10) \frac{z^2+13z+36}{z+9} \cdot \frac{z+4}{6}$$



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$$1) \frac{(n-7)(n+2)}{n-7} \cdot \frac{12}{(n-11)(n-7)}$$
$$\frac{12(n+2)}{(n-11)(n-7)}$$

$$6) \frac{9}{(r-2)} \cdot \frac{11r+33}{(r+3)}$$
$$\frac{99}{r-2}$$

$$2) \frac{11b(b-2)}{(b-2)(b-4)} \cdot \frac{b-4}{(b-9)(b-10)}$$
$$\frac{11b}{(b-9)(b-10)}$$

$$7) \frac{6(q+3)}{3} \cdot \frac{7q}{6(q+3)}$$
$$\frac{7q}{3}$$

$$3) \frac{11(c+7)}{(c+7)} \cdot \frac{12c}{11(c+3)}$$
$$\frac{12c}{c+3}$$

$$8) \frac{4}{7} \cdot \frac{11}{9x}$$
$$\frac{44}{63x}$$

$$4) \frac{5s+5}{s^2+14s+48} \cdot \frac{s+6}{5s+5}$$
$$\frac{1}{s+8}$$

$$9) \frac{42p^2+42p}{28p^2+28p} \cdot \frac{2p}{2}$$
$$\frac{3p}{2}$$

$$5) \frac{2(h-10)}{(h-10)} \cdot \frac{9h}{2(h-8)}$$
$$\frac{9h}{h-8}$$

$$10) \frac{z^2+13z+36}{z+9} \cdot \frac{z+4}{6}$$
$$\frac{(z+4)^2}{6}$$

